



# Welcome, Educators!

As you plan for this year, we hope that Math in Focus and the Singapore Math approach will provide effective strategies for focusing and differentiating instruction. The framework below is designed to help you focus your planning.

#### **Using the Essential Content Framework**

To move forward this fall, we recommend beginning with the content from the current grade. Review this framework against your school's and state's specific goals, and in collaboration with administrators and your colleagues across grades, to determine where you want to add new content or prior-year review.

As you reach the priority topics shown below, as well as the topics that address your specific priorities, you may want to reinforce prerequisite knowledge. The third column (Grades 1 and up) suggests where you can find support from the prior grade on Ed. If the third column is empty, it means that students learned the prerequisites earlier this grade, or several grades in the past.

When you reach content that is not listed as priority content, you can take several paths to give students a targeted grounding:

- Combine some content from that section into a related priority section.
- Teach a mini-lesson on that topic, with the Learn activities and small-group practice, possibly using learning stations.
- Use these topics to extend concepts within a related section.

#### **Evaluating Readiness**

The HMH Math Growth Measure is designed to be given three times a year and can provide a profile of students' mathematical proficiencies. In addition, you have access to Quick Checks and prior-year digital and printable assessments on Ed. We recommend treating these as diagnostic and formative to provide the most supportive learning environment.

#### From Engagement to Mastery

Students should start with engaging, hands-on learning experiences. Using the Concrete-Pictorial-Abstract (CPA) approach, you may want students to use physical math manipulatives throughout the lessons and as a strategic resource to solve non-routine problems. The Learn Videos (Grades 1-5) and Virtual Manipulatives can also provide some extra support. The goal is for students to grow as problem solvers and as mathematicians.

We look forward to supporting you on this worthwhile journey.

The Math in Focus® Team



## Math in Focus © 2020 Course 1

Course 1 Section	Priority Standards	Prior Learning
Chapter 1 Whole Numbers,	Prime Numbers, and Prime Factorization	
1.1 Prime Factorization	Not identified as a Priority Standard. See teaching	
	suggestions above.	
1.2 Common Factors	Not identified as a Priority Standard. See teaching	
	suggestions above.	
1.3 Squares and Cubes	6.EE.A Apply and extend previous understandings	Grade 5 Section 1.2
	of arithmetic to algebraic expressions.*	
Chapter 2 Number Lines and	Negative Numbers	
2.1 The Number Line	6.NS.C Apply and extend previous	
	understandings of numbers to the system of	
	rational numbers.	
2.2 Negative Numbers	6.NS.C Apply and extend previous understandings	
_	of numbers to the system of rational numbers. **	
2.3 Absolute Value	6.NS.C Apply and extend previous understandings	
	of numbers to the system of rational numbers.	
Chapter 3 Fractions and Dec		
3.1 Dividing Fractions	6.NS.A Apply and extend previous understandings	Grade 5 Section 3.7
	of multiplication and division to divide fractions	
	by fractions.	
3.2 Real-World Problems:	6.NS.A Apply and extend previous understandings	Grade 5 Section 3.8
Fractions	of multiplication and division to divide fractions	
	by fractions.	
3.3 Adding and	6.NS.B Compute fluently with multi-digit numbers	Grade 5 Section 5.1
Subtracting Decimals	and find common factors and multiples.+	Grade 5 Section 5.2
Fluently		
3.4 Multiplying Decimals	6.NS.B Compute fluently with multi-digit numbers	Grade 5 Section 5.3
Fluently	and find common factors and multiples.+	Grade 5 Section 5.4
3.5 Dividing Decimals	6.NS.A Apply and extend previous understandings	Grade 5 Section 5.5
Fluently	of multiplication and division to divide fractions	Grade 5 Section 5.6
	by fractions.	
	6.NS.B Compute fluently with multi-digit numbers	
	and find common factors and multiples.+	
3.6 Real-World Problems:	6.NS.B Compute fluently with multi-digit numbers	Grade 5 Section 5.9
Decimals	and find common factors and multiples.+	
Chapter 4 Ratio		
4.1 Comparing Two	6.RP.A Understand ratio concepts and use ratio	Grade 5 Section 9.1
Quantities	reasoning to solve problems.	
4.2 Equivalent Ratios	6.RP.A Understand ratio concepts and use ratio	Grade 5 Section 9.2
	reasoning to solve problems.	
4.3 Real-World Problems:	6.RP.A Understand ratio concepts and use ratio	Grade 5 Section 9.4
Ratios	reasoning to solve problems.	
Chapter 5 Rates and Speed		



Course 1 Section	Priority Standards	Prior Learning
5.1 Rates and Unit Rates	6.RP.A Understand ratio concepts and use ratio	Grade 5 Section 9.4
3.1 Rates and Offic Rates	•	Grade 3 Section 9.4
5.2 David Wards Drahlana	reasoning to solve problems.	Constant Constitution Offi
5.2 Real-World Problems:	6.RP.A Understand ratio concepts and use ratio	Grade 5 Section 9.4
Rates and Unit Rates	reasoning to solve problems.	<u> </u>
5.3 Distance and Speed	6.RP.A Understand ratio concepts and use ratio	
	reasoning to solve problems.	
5.4 Average Speed	6.RP.A Understand ratio concepts and use ratio	
	reasoning to solve problems.	
Chapter 6 Percent		
6.1 Understanding Percent	6.RP.A Understand ratio concepts and use ratio	Grade 5 Section 10.1
	reasoning to solve problems.	
6.2 Fractions, Decimals,	6.RP.A Understand ratio concepts and use ratio	Grade 5 Section 10.2
and Percents	reasoning to solve problems.	
6.3 Percent of a Quantity	6.RP.A Understand ratio concepts and use ratio	Grade 5 Section 10.3
gis i creeme by a quantity	reasoning to solve problems.	G, ddc 3 3cci.o., 10.3
6.4 Real-World Problems:	6.RP.A Understand ratio concepts and use ratio	Grade 5 Section 10.4
Percent	reasoning to solve problems.	Grade 3 Section 10.4
Chapter 7 Algebraic Express		
7.1 Using Letters to	6.EE.A Apply and extend previous understandings	
Represent Numbers	of arithmetic to algebraic expressions.	
7.2 Evaluating Algebraic	6.EE.A Apply and extend previous understandings	
Expressions	of arithmetic to algebraic expressions.	
7.3 Simplifying Algebraic	6.EE.A Apply and extend previous understandings	
Expressions	of arithmetic to algebraic expressions.	
7.4 Expanding and	6.EE.A Apply and extend previous understandings	
Factoring Algebraic	of arithmetic to algebraic expressions.	
Expressions		
7.5 Real-World Problems:	6.EE.B Reason about and solve one-variable	
Algebraic Expressions	equations and inequalities.	
Chapter 8 Equations and Inc	equalities	
8.1 Solving Algebraic	6.EE.B Reason about and solve one-variable	
Equations	equations and inequalities.	
8.2 Writing Linear	6.EE.B Reason about and solve one-variable	
Equations	equations and inequalities.	
	6.EE.C Represent and analyze quantitative	
	relationships between dependent and	
	independent variables.	
	6.RP.A Understand ratio concepts and use ratio	
	reasoning to solve problems.	
8.3 Real-World Problems:	6.EE.B Reason about and solve one-variable	
Equations	equations and inequalities.	
8.4 Solutions of Simple	6.EE.B Reason about and solve one-variable	
Inequalities	equations and inequalities.	
8.5 Real-World Problems:	6.EE.B Reason about and solve one-variable	
Inequalities	equations and inequalities.	



Course 1 Section	Priority Standards	Prior Learning
Chapter 9 The Coordinate P	ane	
9.1 Points on a Coordinate	6.NS.C Apply and extend previous understandings	Grade 5 Section 7.2
Plane	of numbers to the system of rational numbers.	Grade 5 Section 7.3
9.2 Lengths of Line	Not identified as a Priority Standard. See teaching	
Segments	suggestions above.	
9.3 Real-World Problems:	6.EE.A Apply and extend previous understandings	Grade 5 Section 7.2
Graphing	of arithmetic to algebraic expressions.	Grade 5 Section 7.3
	6.EE.C Represent and analyze quantitative	
	relationships between dependent and	
	independent variables.	
	6.NS.C Apply and extend previous understandings	
	of numbers to the system of rational numbers.	
Chapter 10 Area of Polygons	5	
10.1 Area of Triangles	6.G.A Solve real-world and mathematical	Grade 5 Section 8.1
	problems involving area, surface area, and	
	volume.+	
	6.EE.A Apply and extend previous understandings	
	of arithmetic to algebraic expressions.	
10.2 Area of	6.G.A Solve real-world and mathematical	Grade 5 Section 8.2
Parallelograms and	problems involving area, surface area, and	
Trapezoids	volume.+	
	6.EE.A Apply and extend previous understandings	
10.24	of arithmetic to algebraic expressions.	0 / 50 // 00
10.3 Area of Other	6.G.A Solve real-world and mathematical	Grade 5 Section 8.2
Polygons	problems involving area, surface area, and volume.+	
	6.EE.A Apply and extend previous understandings	
	of arithmetic to algebraic expressions.	
Chapter 11 Surface Area and	<u> </u>	
11.1 Prisms and Pyramids	6.G.A Solve real-world and mathematical	
11.17713113 and 1 yrannas	problems involving area, surface area, and	
	volume.+	
11.2 Surface Area of Solids	6.G.A Solve real-world and mathematical	
	problems involving area, surface area, and	
	volume.+	
	6.EE.A Apply and extend previous understandings	
	of arithmetic to algebraic expressions.	
11.3 Volume of	6.G.A Solve real-world and mathematical	Grade 5 Section 6.1
Rectangular Prisms	problems involving area, surface area, and	Grade 5 Section 6.2
	volume.+	Grade 5 Section 6.3
	6.EE.A Apply and extend previous understandings	
	of arithmetic to algebraic expressions.	
11.4 Real-World Problems:	6.G.A Solve real-world and mathematical	Grade 5 Section 6.3
Surface Area and Volume	problems involving area, surface area, and	Grade 5 Section 6.4
	volume.+	



Course 1 Section	Priority Standards	Prior Learning
	6.EE.A Apply and extend previous understandings	
	of arithmetic to algebraic expressions.	
Chapter 12 Introduction to S	tatistics	
12.1 Collecting and	Not identified as a Priority Standard. See teaching	
Tabulating Data	suggestions above.	
12.2 Dot Plots	Not identified as a Priority Standard. See teaching	
	suggestions above.	
12.3 Histograms	Not identified as a Priority Standard. See teaching	
	suggestions above.	
Chapter 13 Measures of Cen	tral Tendency and Variability	
13.1 Mean	Not identified as a Priority Standard. See teaching	
	suggestions above.	
13.2 Median	Not identified as a Priority Standard. See teaching	
	suggestions above.	
13.3 Mode	Not identified as a Priority Standard. See teaching	
	suggestions above.	
13.4 Interpreting Quartiles	Not identified as a Priority Standard. See teaching	
and Interquartile Range	suggestions above.	
13.5 Box Plots and Mean	Not identified as a Priority Standard. See teaching	
Absolute Deviation	suggestions above.	
13.6 Real-World Problems:	Not identified as a Priority Standard. See teaching	
Measures of Central	suggestions above.	
Tendency and Variability		

<sup>\*</sup> Priority standards clusters were identified as Priority Instructional Content through Achieve the Core by Student Achievement Partners, Pre-Publication Draft, May 2020. Full documents are available at AchieveTheCore.org.

<sup>\*\*</sup>International Center for Leadership in Education (ICLE) selected further priority standards, in most cases within the clusters called out by Achieve the Core.

<sup>+</sup> Indicates standard selected by ICLE that is not within an Achieve the Core cluster.



### Math in Focus © 2020 Course 2

7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.* 7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. 7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract	Grade 6 Section 2.1  Grade 6 Section 6.2
of operations with fractions to add, subtract, multiply, and divide rational numbers.*  7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.  7.NS.A Apply and extend previous understandings	Grade 6 Section 6.2
of operations with fractions to add, subtract, multiply, and divide rational numbers. 7.NS.A Apply and extend previous understandings	
, , ,	
multiply, and divide rational numbers.	Grade 6 Section 2.2 Grade 6 Section 2.3
7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	Grade 6 Section 2.2 Grade 6 Section 2.3
of operations with fractions to add, subtract, multiply, and divide rational numbers.	
7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. ** 7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	
7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. 7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	Grade 6 Section 3.1 Grade 6 Section 3.2
7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. 7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	Grade 6 Section 3.3 Grade 6 Section 3.4 Grade 6 Section 3.5 Grade 6 Section 3.6
ns	
7.EE.A Use properties of operations to generate equivalent expressions. 7.EE.A Use properties of operations to generate equivalent expressions.	Grade 6 Section 7.1 Grade 6 Section 7.2 Grade 6 Section 7.1 Grade 6 Section 7.2
<u> </u>	of operations with fractions to add, subtract, multiply, and divide rational numbers.  I.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.  I.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.  I.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.  I.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.  I.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.  I.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.  I.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.  I.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.  I.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.  I.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.  I.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.  I.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.



Course 2 Section	Priority Standards	Prior Learning
2.3 Simplifying Algebraic	7.EE.A Use properties of operations to generate	Grade 6 Section 7.3
Expressions	equivalent expressions.	
2.4 Expanding Algebraic	7.EE.A Use properties of operations to generate	Grade 6 Section 7.4
Expressions	equivalent expressions.	
2.5 Factoring Algebraic	7.EE.A Use properties of operations to generate	Grade 6 Section 7.4
Expressions	equivalent expressions.	
2.6 Writing Algebraic	7.EE.A Use properties of operations to generate	Grade 6 Section 7.1
Expressions	equivalent expressions.	Grade 6 Section 7.2
		Grade 6 Section 7.3
		Grade 6 Section 7.4
2.7 Real-World Problems:	7.EE.B Solve real-life and mathematical problems	Grade 6 Section 7.5
Algebraic Reasoning	using numerical and algebraic expressions and	
	equations.	
Chapter 3 Algebraic Equation		
3.1 Identifying Equivalent	7.EE.A Use properties of operations to generate	Grade 6 Section 8.1
Equations	equivalent expressions	Grade 6 Section 8.2
		Grade 6 Section 8.3
3.2 Solving Algebraic	7.EE.B Solve real-life and mathematical problems	Grade 6 Section 8.1
Equations	using numerical and algebraic expressions and	
2.2.0	equations.	Contraction 0.2
3.3 Real-World Problems:	7.EE.B Solve real-life and mathematical problems	Grade 6 Section 8.3
Algebraic Equations	using numerical and algebraic expressions and	
2.4 Coluina Alachraic	equations.  7.EE.B Solve real-life and mathematical problems	Grade 6 Section 8.4
3.4 Solving Algebraic Inequalities	using numerical and algebraic expressions and	Gruue o Section 8.4
mequanties	equations.	
3.5 Real-World Problems:	7.EE.B Solve real-life and mathematical problems	Grade 6 Section 8.4
Algebraic Inequalities	using numerical and algebraic expressions and	Grade 6 Section 8.5
7 11 6 6 7 11 1 1 1 1 1 1 1 1 1 1 1 1 1	equations.	
Chapter 4 Proportion and P		
4.1 Identifying Direct	7.RP.A Analyze proportional relationships and use	Grade 6 Section 4.1
Proportion	them to solve real-world and mathematical	Grade 6 Section 4.2
	problems.	
4.2 Representing Direct	7.RP.A Analyze proportional relationships and use	Grade 6 Section 4.2
Proportion Graphically	them to solve real-world and mathematical	Grade 6 Section 9.1
	problems.	
4.3 Real-World Problems:	7.RP.A Analyze proportional relationships and use	Grade 6 Section 4.3
Direct Proportion	them to solve real-world and mathematical	
	problems.	
4.4 Identifying Inverse	7.RP.A Analyze proportional relationships and use	Grade 6 Section 4.1
Proportion	them to solve real-world and mathematical	Grade 6 Section 4.2
	problems.	
4.5 Percent Increase and	7.RP.A Analyze proportional relationships and use	Grade 6 Section 6.1
Decrease	them to solve real-world and mathematical	Grade 6 Section 6.2
	problems.	Grade 6 Section 6.3



Course 2 Section	Priority Standards	Prior Learning
4.6 Real-Word Problems:	7.RP.A Analyze proportional relationships and use	Grade 6 Section 6.1
Percent Increase and	them to solve real-world and mathematical	Grade 6 Section 6.2
Decrease	problems.	Grade 6 Section 6.3
	,	Grade 6 Section 6.4
Chapter 5 Angle Properties	and Straight Lines	
5.1 Complementary,	Not identified as a Priority Standard. See teaching	
Supplementary, and	suggestions above.	
Adjacent Angles		
5.2 Angles That Share a	Not identified as a Priority Standard. See teaching	
Vertex	suggestions above.	
5.3 Alternate Interior,	Not identified as a Priority Standard. See teaching	
Alternate Exterior, and	suggestions above.	
Corresponding Angles	Subpositions above.	
5.4 Interior and Exterior	Not identified as a Priority Standard. See teaching	
Angles	suggestions above.	
Chapter 6 Geometric Constr		
6.1 Constructing Triangles	Not identified as a Priority Standard. See teaching	
0.1 constructing mangies	suggestions above.	
6.2 Scale Drawings and	7.G.A Draw, construct and describe geometrical	Grade 6 Section 4.2
Lengths	figures and describe the relationships between	Grade 6 Section 5.2
Lengths	them.+	Grade o Section 5.2
6.3 Scale Drawing and	7.G.A Draw, construct and describe geometrical	Grade 6 Section 4.3
Areas	figures and describe the relationships between	Grade 6 Section 5.2
	them.+	
Chapter 7 Circumference, A	rea, Volume, and Surface Area	
7.1 Radius, Diameter, and	Not identified as a Priority Standard. See teaching	
Circumference of a Circle	suggestions above.	
7.2 Area of a Circle	Not identified as a Priority Standard. See teaching	
	suggestions above.	
7.3 Real-World Problems:	Not identified as a Priority Standard. See teaching	
Circles	suggestions above.	
7.4 Area of Composite	7.G.B Solve real-life and mathematical problems	Grade 6 Section 10.1
Figures	involving angle measure, area, surface area, and	Grade 6 Section 10.2
	volume.+	Grade 6 Section 10.3
7.5 Volume of Prisms	7.G.B Solve real-life and mathematical problems	Grade 6 Section 11.1
-	involving angle measure, area, surface area, and	Grade 6 Section 11.3
	volume.+	
7.6 Real-World Problems:	7.G.B Solve real-life and mathematical problems	Grade 6 Section 11.4
Surface Area and Volume	involving angle measure, area, surface area, and	
,	volume.+	
<b>Chapter 8 Statistics and Pro</b>	bability	
8.1 Random Sampling	Not identified as a Priority Standard. See teaching	
Methods	suggestions above.	
8.2 Making Inferences	7.SP.B Draw informal comparative inferences	



Course 2 Section	Priority Standards	Prior Learning
8.3 Defining Outcomes,	Not identified as a Priority Standard. See teaching	
Events, and Sample Space	suggestions above.	
8.4 Finding Probability of	Not identified as a Priority Standard. See teaching	
Events	suggestions above.	
8.5 Approximating	Not identified as a Priority Standard. See teaching	
Probability and Relative	suggestions above.	
Frequency		
8.6 Developing Probability	7.SP.C Investigate chance processes and develop,	Grade 6 Section 6.2
Models	use, and evaluate probability models.+	Grade 6 Section 12.3
		Grade 6 Section 13.2
Chapter 9 Probability of Con	npound Events	
9.1 Compound Events	7.SP.C Investigate chance processes and develop,	
	use, and evaluate probability models.+	
9.2 Probability of	Not identified as a Priority Standard. See teaching	
Compound Events	suggestions above.	
9.3 Independent Events	Not identified as a Priority Standard. See teaching	
	suggestions above.	
9.4 Dependent Events	Not identified as a Priority Standard. See teaching	
	suggestions above.	

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 $<sup>\</sup>boldsymbol{+}$  Indicates standard selected by ICLE that is not within an Achieve the Core cluster.



## Math in Focus © 2020 Course 3

Course 3 Section	Priority Standards	Prior Learning
Chapter 1 The Real Number		Ü
1.1 Introducing Irrational	Not identified as a Priority Standard. See teaching	
Numbers	suggestions above.	
1.2 Introducing the Real	8.NS.A Know that there are numbers that are not	Grade 7 Section 1.1
Number System	rational, and approximate them by rational	Grade 7 Section 1.2
	numbers.+	Grade 7 Section 1.7
1.3 Introducing Significant	Not identified as a Priority Standard. See teaching	
Digits	suggestions above.	
Chapter 2 Exponents		
2.1 Exponential Notation	8.EE.A Work with radicals and integer	
	exponents.*	
2.2 The Product and	8.EE.A Work with radicals and integer exponents.	
Quotient of Powers		
2.3 The Power of a Power	8.EE.A Work with radicals and integer exponents.	
2.4 The Power of a	8.EE.A Work with radicals and integer exponents.	
Product and the Power of		
a Quotient		
2.5 Zero and Negative	8.EE.A Work with radicals and integer exponents.	
Exponents		
2.6 Squares, Square Roots,	8.EE.A Work with radicals and integer	
Cubes, and Cube Roots	exponents.**	
Chapter 3 Scientific Notation	1	
3.1 Understanding	Not identified as a Priority Standard. See teaching	
Scientific Notation	suggestions above.	
3.2 Adding and	8.EE.A Work with radicals and integer	
Subtracting in Scientific	exponents.+	
Notation		
3.3 Multiplying and	Not identified as a Priority Standard. See teaching	
Dividing in Scientific	suggestions above.	
Notation		
Chapter 4 Linear Equations	T	
4.1 Solving Linear	8.EE.C Analyze and solve linear equations and	Grade 7 Section 3.1
Equations with One	pairs of simultaneous linear equations.	Grade 7 Section 3.2
Variable		
4.2 Identifying the	8.EE.C Analyze and solve linear equations and	Grade 7 Section 3.1
Number Solutions to a	pairs of simultaneous linear equations.	Grade 7 Section 3.2
Linear Equation	0.55.04	0 1 70 11 01
4.3 Understanding Linear	8.EE.C Analyze and solve linear equations and	Grade 7 Section 3.1
Equations with Two	pairs of simultaneous linear equations.	Grade 7 Section 3.2
Variables		



Course 3 Section	Priority Standards	Prior Learning
4.4 Solving for a Variable	8.EE.C Analyze and solve linear equations and	Grade 7 Section 3.1
in a Two-Variable Linear	pairs of simultaneous linear equations.	Grade 7 Section 3.2
Equation	Famo of annumental equations.	
4.5 Solving Linear	Not identified as a Priority Standard. See teaching	
Inequalities with One	suggestions above.	
Variable	Suggestions above.	
	austions	
Chapter 5 Lines and Linear E	8.EE.B Understand the connections between	
5.1 Finding and		
Interpreting Slopes of	proportional relationships, lines, and linear	
Lines	equations.	
5.2 Understanding Slope-	8.EE.B Understand the connections between	
Intercept Form	proportional relationships, lines, and linear	
	equations.	
5.3 Writing Linear	8.EE.B Understand the connections between	
Equations	proportional relationships, lines, and linear	
	equations.	
5.4 Sketching Graphs of	8.EE.B Understand the connections between	
Linear Equations	proportional relationships, lines, and linear	
·	equations.	
5.5 Real-World Problems:	8.EE.B Understand the connections between	Grade 7 Section 3.3
Linear Equations	proportional relationships, lines, and linear	
	equations.	
Chapter 6 Systems of Linear	,	
6.1 Introduction to	8.EE.C Analyze and solve linear equations and	
Systems of Linear	pairs of simultaneous linear equations.	
Equations	pans of simultaneous inical equations.	
6.2 Solving Systems of	8.EE.C Analyze and solve linear equations and	
Linear Equations Using	pairs of simultaneous linear equations.	
Algebraic Methods	pairs of simultaneous inical equations.	
Algebraic Metrious		
6.3 Real-World Problems:	8.EE.C Analyze and solve linear equations and	
	,	
Systems of Linear	pairs of simultaneous linear equations.	
Equations		
CACILITY C. 1	0.55.0 A color and color live and col	
6.4 Solving Systems of	8.EE.C Analyze and solve linear equations and	
Linear Equations by	pairs of simultaneous linear equations.	
Graphing		
9.5 Inconsistent and	8.EE.C Analyze and solve linear equations and	
Dependent Systems of	pairs of simultaneous linear equations.	
Linear Equations		
Chapter 7 Functions		
7.1 Understanding	8.F.A Define, evaluate, and compare functions.	Grade 7 Section 2.1
Relation and Functions		Grade 7 Section 2.2
		Grade 7 Section 2.3
		Grade 7 Section 2.4
•	I	Grade 7 Section 2.5



Course 3 Section	Priority Standards	Prior Learning
		Grade 7 Section 2.6
7.2 Representing	8.F.A Define, evaluate, and compare functions.	Grade / Section 2.6
Functions	0.5.4.5.6	0 1 70 11 00
7.3 Understanding Linear	8.F.A Define, evaluate, and compare functions.	Grade 7 Section 2.6
and Nonlinear Functions	8.F.B Use functions to model relationships	Grade 7 Section 3.1
	between quantities.	Grade 7 Section 3.2
7.4 Compare Two	8.F.A Define, evaluate, and compare functions.	
Functions		
Chapter 8 The Pythagorean	Theorem	
8.1 Understanding the	8.G.B. Understand and apply the Pythagorean	Grade 7 Section 6.1
Pythagorean Theorem and	Theorem.	Grade 7 Section 6.2
Plane Figures		
8.2 Understanding the	8.G.B Understand and apply the Pythagorean	Grade 7 Section 6.3
Distance Formula	Theorem.	
8.3 Understanding the	8.G.B Understand and apply the Pythagorean	Grade 7 Section 7.5
Pythagorean Theorem and	Theorem.	
Solids		
Chapter 9 Geometric Transfe	ormations	
9.1 Translations	Not identified as a Priority Standard. See teaching	
	suggestions above.	
9.2 Reflections	Not identified as a Priority Standard. See teaching	
3.2 Nerreductions	suggestions above.	
9.3 Rotations	Not identified as a Priority Standard. See teaching	
3.5 Notations	suggestions above.	
9.4 Dilations	Not identified as a Priority Standard. See teaching	
3.4 Dilacions	suggestions above.	
9.5 Comparing	Not identified as a Priority Standard. See teaching	
Transformations	suggestions above.	
Chapter 10 Congruence and		
10.1 Understanding and	Not identified as a Priority Standard. See teaching	
Applying Congruent	suggestions above.	
Figures	O.C. A. Handonstand communication desired and	Cuado 7 Costis a 5 4
10.2 Understanding and	8.G.A Understand congruence and similarity using	Grade 7 Section 5.1
Applying Similar Figures	physical models, transparencies, or geometry	Grade 7 Section 5.2
	software.+	Grade 7 Section 5.3
1000111		Grade 7 Section 5.4
10.3 Relating Congruent	Not identified as a Priority Standard. See teaching	
and Similar Figures to	suggestions above.	
Geometric		
Transformations		
Chapter 11 Volume and Surf		
11.1 Recognizing	Not identified as a Priority Standard. See teaching	
Cylinders, Cones, Spheres,	suggestions above.	
and Pyramids		
11.2 Finding Volumes and	Not identified as a Priority Standard. See teaching	
Surface Areas of Cylinders	suggestions above.	



Course 3 Section	Priority Standards	Prior Learning
11.3 Finding Volumes and	Not identified as a Priority Standard. See teaching	
Surface Areas of Pyramids	suggestions above.	
and Cones		
11.4 Finding Volumes and	Not identified as a Priority Standard. See teaching	
Surface Areas of Spheres	suggestions above.	
11.5 Real-World Problems:	Not identified as a Priority Standard. See teaching	
Composite Solids	suggestions above.	
Chapter 12 Statistics		
12.1 Scatter Plots	8.SP.A Investigate patterns of association in	Grade 7 Section 8.5
	bivariate data.+	
12.2 Modeling Linear	Not identified as a Priority Standard. See teaching	
Associations	suggestions above.	
12.3 Two-Way Tables	Not identified as a Priority Standard. See teaching	
	suggestions above.	

<sup>\*</sup> Priority standards clusters were identified as Priority Instructional Content through Achieve the Core by Student Achievement Partners, Pre-Publication Draft, May 2020. Full documents are available at AchieveTheCore.org.

<sup>\*\*</sup>International Center for Leadership in Education (ICLE) selected further priority standards, in most cases within the clusters called out by Achieve the Core.

<sup>+</sup> Indicates standard selected by ICLE that is not within an Achieve the Core cluster.



## Math in Focus © 2020 Course 2 Accelerated

Course 2 Acc. Section	Priority Standards	Prior Learning
Chapter 1 The Real Number		J
1.1 Representing Rational Numbers on a Number Line	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.*	Grade 6 Section 2.1
1.2 Writing Rational Numbers as Decimals	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	Grade 6 Section 6.2
1.3 Introducing Irrational Numbers	Not identified as a Priority Standard. See teaching suggestions above.	
1.4 Introducing the Real Number System	8.NS.A Know that there are numbers that are not rational, and approximate them by rational numbers.+	
1.5 Introducing Significant Digits	Not identified as a Priority Standard. See teaching suggestions above.	
1.6 Adding Integers	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	Grade 6 Section 2.2 Grade 6 Section 2.3
1.7 Subtracting Integers	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	Grade 6 Section 2.2 Grade 6 Section 2.3
1.8 Multiplying and Dividing Integers	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.	
1.9 Order of Operations with Integers	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.**  7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	
1.10 Operations with Fractions and Mixed Numbers	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. 7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	Grade 6 Section 3.1 Grade 6 Section 3.2
1.11 Operations with Decimals	7.NS.A Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers. 7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	Grade 6 Section 3.3 Grade 6 Section 3.4 Grade 6 Section 3.5 Grade 6 Section 3.6
Chapter 2 Algebraic Expression	ions	



Course 2 Acc. Section	Priority Standards	Prior Learning
2.1 Adding Algebraic	7.EE.A Use properties of operations to generate	Grade 6 Section 7.1
Terms	equivalent expressions.	Grade 6 Section 7.2
2.2 Subtracting Algebraic	7.EE.A Use properties of operations to generate	Grade 6 Section 7.1
Terms	equivalent expressions.	Grade 6 Section 7.2
2.3 Simplifying Algebraic Expressions	7.EE.A Use properties of operations to generate equivalent expressions.	Grade 6 Section 7.3
2.4 Expanding Algebraic Expressions	7.EE.A Use properties of operations to generate equivalent expressions.	Grade 6 Section 7.4
2.5 Factoring Algebraic Expressions	7.EE.A Use properties of operations to generate equivalent expressions.	Grade 6 Section 7.4
2.6 Writing Algebraic	7.EE.A Use properties of operations to generate	Grade 6 Section 7.1
Expressions	equivalent expressions.	Grade 6 Section 7.2
		Grade 6 Section 7.3
		Grade 6 Section 7.4
2.7 Real-World Problems: Algebraic Reasoning	7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	Grade 6 Section 7.5
Chapter 3 Algebraic Equation		
3.1 Identifying Equivalent	7.EE.A Use properties of operations to generate	Grade 6 Section 8.1
Equations	equivalent expressions	Grade 6 Section 8.2
·		Grade 6 Section 8.3
3.2 Solving Algebraic Equations	7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	Grade 6 Section 8.1
3.3 Real-World Problems: Algebraic Equations	7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	Grade 6 Section 8.3
3.4 Solving Algebraic Inequalities	7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	Grade 6 Section 8.4
3.5 Real-World Problems: Algebraic Inequalities	7.EE.B Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	Grade 6 Section 8.4 Grade 6 Section 8.5
Chapter 4 Linear Equations	and Inequalities	
4.1 Solving Linear Equations with One Variable	8.EE.C Analyze and solve linear equations and pairs of simultaneous linear equations.	
4.2 Identifying the Number Solutions to a Linear Equation	8.EE.C Analyze and solve linear equations and pairs of simultaneous linear equations.	
4.3 Understanding Linear Equations with Two Variables	8.EE.C Analyze and solve linear equations and pairs of simultaneous linear equations.	



### Solving for a Variable linear Equations ### Solving Linear Inequalities with One Variable Linear Equation ### Assolving Linear Inequalities with One Variable ### Chapter 5 Lines and Linear Equations ### 5.1 Finding and Interpreting Slopes of Lines ### 5.2 Understanding Slope-Intercept Form Interpreting Slopes of Linear Equations ### 5.3 Writing Linear Equations ### 5.3 Writing Linear Equations ### 5.3 Writing Linear Equations ### 5.4 Sketching Graphs of Linear Equations ### 5.4 Sketching Graphs of Linear Equations ### 5.4 Sketching Graphs of Linear Equations ### 5.5 Real-World Problems: Linear Equations ### 5.5 Real-World Problems: Linear Equations ### 6.1 Understanding Relation and Functions ### 6.1 Understanding Linear and Nonlinear Functions ### 6.2 Representing Linear and Nonlinear Functions ### 6.3 Understanding Linear and Nonlinear Functions ### 6.4 Comparing Two Endowment St. See Define, evaluate, and compare functions ### 6.4 Comparing Two Endowment St. See Define, evaluate, and compare functions ### 6.4 Comparing Two Endowment St. See Define, evaluate, and compare functions ### 6.4 Comparing Two Endowment St. See Define, evaluate, and compare functions ### 6.4 Comparing Two Endowment St. See Define, evaluate, and compare functions ### 6.4 Comparing Two Endowment St. See Define, evaluate, and compare functions ### 6.4 Comparing Two Endowment St. See Define, evaluate, and compare functions ### 6.4 Comparing Two Endowment St. See Define, evaluate, and compare functions ### 6.4 Comparing Two Endowment St. See Define, evaluate, and compare functions ### 6.4 Comparing Two Endowment St. See Define, evaluate, and compare functions ### 6.4 Comparing Two Endowment St. See Define, evaluate, and compare functions ### 6.4 Comparing Two Endowment St. See Define, evaluate, and compare functions ### 6.4 Comparing Two Endowment St. See Define, evaluate, and compare functions ### 6.4 Comparing Two Endowment St. See Define Endowment St. See Define Endowment St. See Define Endowment St. See Define Endowment St. See De	Course 2 Acc. Section	Priority Standards	Prior Learning
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6.4 Comparing Two Functions  Chapter 7 Exponents  7.1 Exponential Notation R.EE.A Work with radicals and integer exponents.  7.2 The Product and Quotient of Powers  7.3 The Power of a Power R.EE.A Work with radicals and integer exponents.  8.EE.A Work with radicals and integer exponents.	and Nonlinear Functions		
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Cubes, and Cube Roots		8.EE.A Work with radicals and integer exponents.	
	Chapter 8 Scientific Notation	n	



Course 2 Acc. Section	Priority Standards	Prior Learning
8.1 Understanding	Not identified as a Priority Standard. See teaching	
Scientific Notation	suggestions above.	
8.2 Adding and	8.EE.A Work with radicals and integer	
Subtracting in Scientific	exponents.+	
Notation		
8.3 Multiplying and	Not identified as a Priority Standard. See teaching	
Dividing in Scientific Notation	suggestions above.	
Chapter 9 Proportion and Pe	ercent of Change	
9.1 Identifying Direct	7.RP.A Analyze proportional relationships and use	Grade 6 Section 4.1
Proportion	them to solve real-world and mathematical problems.	Grade 6 Section 4.2
9.2 Representing Direct	7.RP.A Analyze proportional relationships and use	Grade 6 Section 4.2
Proportion Graphically	them to solve real-world and mathematical problems.	Grade 6 Section 9.1
9.3 Real-World Problems:	7.RP.A Analyze proportional relationships and use	Grade 6 Section 4.3
Direct Proportion	them to solve real-world and mathematical problems.	
9.4 Identifying Inverse	7.RP.A Analyze proportional relationships and use	Grade 6 Section 4.1
Proportion	them to solve real-world and mathematical problems.	Grade 6 Section 4.2
9.5 Percent Increase and	7.RP.A Analyze proportional relationships and use	Grade 6 Section 6.1
Decrease	them to solve real-world and mathematical	Grade 6 Section 6.2
	problems.	Grade 6 Section 6.3
9.6 Real-Word Problems:	7.RP.A Analyze proportional relationships and use	Grade 6 Section 6.1
Percent Increase and	them to solve real-world and mathematical	Grade 6 Section 6.2
Decrease	problems.	Grade 6 Section 6.3
		Grade 6 Section 6.4
Chapter 10 Angle Properties		
Supplementary, and Adjacent Angles	Not identified as a Priority Standard. See teaching suggestions above.	
10.2 Angles That Share a Vertex	Not identified as a Priority Standard. See teaching suggestions above.	
10.3 Alternate Interior,	Not identified as a Priority Standard. See teaching	
Alternate Exterior, and	suggestions above.	
Corresponding Angles		
10.4 Interior and Exterior	Not identified as a Priority Standard. See teaching	
Angles	suggestions above.	
Chapter 11 Geometric Cons		
11.1 Constructing	Not identified as a Priority Standard. See teaching	
Triangles	suggestions above.	



Course 2 Acc. Section	Priority Standards	Prior Learning
11.2 Scale Drawings and	7.G.A Draw, construct and describe geometrical	Grade 6 Section 4.2
Lengths	figures and describe the relationships between	Grade 6 Section 5.2
	them.+	
11.3 Scale Drawing and	7.G.A Draw, construct and describe geometrical	Grade 6 Section 4.3
Areas	figures and describe the relationships between	Grade 6 Section 5.2
	them.+	
Chapter 12 Area, Volume, a	nd Surface Area	
12.1 Radius, Diameter,	Not identified as a Priority Standard. See teaching	
and Circumference of a	suggestions above.	
Circle		
12.2 Area of a Circle	Not identified as a Priority Standard. See teaching	
	suggestions above.	
12.3 Real-World Problems:	Not identified as a Priority Standard. See teaching	
Circles	suggestions above.	
12.4 Area of Composite	7.G.B Solve real-life and mathematical problems	Grade 6 Section 10.1
Figures	involving angle measure, area, surface area, and	Grade 6 Section 10.2
	volume.+	Grade 6 Section 10.3
12.5 Finding Volumes and	7.G.B Solve real-life and mathematical problems	Grade 6 Section 11.1
Surface Areas of Prisms	involving angle measure, area, surface area, and	Grade 6 Section 11.3
	volume.+	Grade 6 Section 11.4
12.6 Recognizing	Not identified as a Priority Standard. See teaching	
Cylinders, Cones, Spheres,	suggestions above.	
and Pyramids		
12.7 Finding Volumes and	Not identified as a Priority Standard. See teaching	
Surface Areas of Cylinders	suggestions above.	
12.8 Finding Volumes and	Not identified as a Priority Standard. See teaching	
Surface Areas of Pyramids	suggestions above.	
and Cones		
12.9 Finding Volumes and	Not identified as a Priority Standard. See teaching	
Surface Areas of Spheres	suggestions above.	
12.10 Real-World	Not identified as a Priority Standard. See teaching	
Problems: Composite	suggestions above.	
Solids		
Chapter 13 Geometric Trans	formations	
13.1 Translations	Not identified as a Priority Standard. See teaching	
	suggestions above.	
13.2 Reflections	Not identified as a Priority Standard. See teaching	
	suggestions above.	
13.3 Rotations	Not identified as a Priority Standard. See teaching	
	suggestions above.	
13.4 Dilations	Not identified as a Priority Standard. See teaching	
	suggestions above.	
13.5 Comparing	Not identified as a Priority Standard. See teaching	
Transformations	suggestions above.	
Chapter 14 Congruence and	Similarity	



Course 2 Acc. Section	Priority Standards	Prior Learning
14.1 Understanding and	Not identified as a Priority Standard. See teaching	
Applying Congruent	suggestions above.	
Figures	Q.C.A. Understand congruence and similarity using	
14.2 Understanding and Applying Similar Figures	8.G.A Understand congruence and similarity using physical models, transparencies, or geometry	
Applying Similar rigares	software.+	
14.3 Relating Congruent	Not identified as a Priority Standard. See teaching	
and Similar Figures to	suggestions above.	
Geometric		
Transformations		
Chapter 15 Statistics and Pro	1	
15.1 Random Sampling Methods	Not identified as a Priority Standard. See teaching suggestions above.	
15.2 Making Inferences	7.SP.B Draw informal comparative inferences	
About Populations	about two populations.+	
15.3 Defining Outcomes,	Not identified as a Priority Standard. See teaching	
Events, and Sample Space	suggestions above.	
15.4 Finding Probability of	Not identified as a Priority Standard. See teaching	
Events	suggestions above.	
15.5 Approximating	Not identified as a Priority Standard. See teaching	
Probability and Relative Frequency	suggestions above.	
15.6 Developing	7.SP.C Investigate chance processes and develop,	Grade 6 Section 6.2
Probability Models	use, and evaluate probability models.+	Grade 6 Section 12.3
		Grade 6 Section 13.2
Chapter 16 Probability of Co	1	
16.1 Compound Events	7.SP.C Investigate chance processes and develop,	
16.2 Probability of	use, and evaluate probability models.+	
16.2 Probability of Compound Events	Not identified as a Priority Standard. See teaching suggestions above.	
Compound Events	Suggestions above.	
16.3 Independent Events	Not identified as a Priority Standard. See teaching	
	suggestions above.	
16.4 Dependent Events	Not identified as a Priority Standard. See teaching	
	suggestions above.	

<sup>\*</sup> Priority standards clusters were identified as Priority Instructional Content through Achieve the Core by Student Achievement Partners, Pre-Publication Draft, May 2020. Full documents are available at AchieveTheCore.org.

<sup>\*\*</sup>International Center for Leadership in Education (ICLE) selected further priority standards, in most cases within the clusters called out by Achieve the Core.

<sup>+</sup> Indicates standard selected by ICLE that is not within an Achieve the Core cluster.